Name:_____ Date:_____

How Many?

Complete the chart below using the information we have learned about the different parts of a meter. (Hint: Use you Meter Mania chart to help you answer these questions!)

How many?	Fraction of a meter	Decimal fraction of a meter
Ex:3 decimeters	3/10	0.3
450 millimeters		
62 centimeters		
8 millimeters		
91 millimeters		
4 centimeters		
7 decimeters		

Student Resource 7

Name:_____ Date:_____

Selected Response Questions

Answer each of the following questions by circling the correct response. There is only one correct response for each question.

1. How many meters are in a kilometer?
    e. 100
    f. 10
    g. 1000
    h. 110

2. How many centimeters are in a meter?
    a. 100
    b. 10
    c. 1000
    d. 0

3. The length of a book measures 5 decimeters. What fraction of a meter is the length of the book?
    a. 5/100
    b. 5/10
    c. 1/5
    d. 5/1000

4. The length of a pencil measures 9 centimeters. What decimal represents the length of the pencil in meters?
    a. 0.90
    b. 0.9
    c. 0.09
    d. 0.009

5. The length of your calculator is 100 millimeters. What fraction of a meter is the length of the calculator?
    a. 100/100
    b. 1/1000
    c. 10/1000
    d. 100/1000

Name:_____ Date:_____

Making More!!!

Using the information you have learned about the relationship between different units to answer the questions below. (HINT: refer back to Meter Mania!)

1. How many decimeters are equal to 2 meters? How do you know?

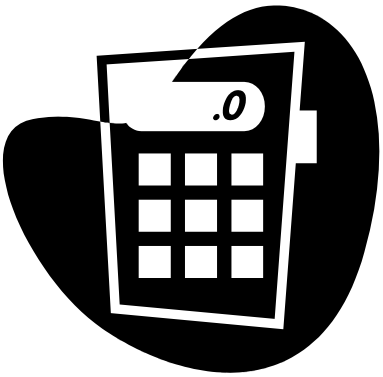
2. How many meters are equal to 3 kilometers? How do you know?

3. How many meters are equal to 500 centimeters? How do you know?

4. How many decimeters are equal to 4 meters? How do you know?

5. How many hectometers are equal to 200 meters? How do you know?

Calculator Fun



1. 790 ÷ 10 =
   79 ÷ 10 =
   7.9 ÷ 10 =
   0.79 ÷ 10 =

2. 250 ÷ 100 =
   2.5 ÷ 100 =

3. 2670 ÷ 1000 =
   2.67 ÷ 1000 =

4. 85 x 10 =
   8.5 x 10 =
   0.85 x 10 =

5. 54 x 100 =
   5.4 x 100 =
   0.54 x 100=

6. 23 x 1000 =
   2.3 x 1000 =

7. 120 ÷ 10 =

8. 34 x 100 =

9. 1.4 ÷ 100 =

10. 3.45 x 1000 =

11. 6.65 ÷ 1000 =

12. 0.75 x 10 =

Name:_____
Date:_____

How Many???

For each of the following problem, write the correct metric conversion on the line provided. Don't forget to convert into meters FIRST!

How many…

1. 5 centimeters (cm)= _____ meters (m)= _____ millimeters (mm)

2. 26 decimeters (deci)= _____ meters (m)= _____kilometers (km)

3. 7 hectometers (hm)= _____ meters (m)= _____centimeters (cm)

4. 40 decameters (deca)= _____ decimeters (deci)

5. 8000 millimeters (mm)=_____ kilometers (km)

6. 650 centimeters (cm)= _____ decameters (deca)

7. 1875 hectometers (hm)= _____ decimeters (deci)

8. 9 kilometers (km)= _____ centimeters (cm)

9. 333 millimeters (mm)= _____ centimeters (cm)

10. 60 centimeters (mm)= _____ hectometers (hm)

Make up two of your own metric conversions:

*1

*2

Summative Assessment – Measuring to the Nearest Metric Unit and Making Conversions

1. What would be the best unit to measure the length of a paperclip?
   - meters
   - centimeters
   - millimeters
   - hectometers

2. What would be the best unit to measure the length of a dining room table?
   - meters
   - centimeters
   - millimeters
   - hectometers

3. How many millimeters are in a meter?
   - 10
   - .01
   - 100
   - 1000

4. How many meters are in a hectometer?
   - 10
   - .01
   - 100
   - 1000

5. What fraction of a meter is a centimeter?
   - 1/10
   - 1/100
   - 2/1000
   - 1/1000

6. How many centimeters are in 3 meters?
   - 3000
   - 3
   - 0.300
   - 300

7. How many millimeters are in 10 centimeters?
   - 0.01
   - 100
   - 1000
   - 10,000

Brief Constructed Response

Susan has a pencil that measures 15 centimeters (cm). Her brother, Louis, has a pencil that measures 154 millimeters (mm).

Step A.
Whose pencil is longer?

_____

Step B.
Explain how you know your answer is correct. Use what you know about measurement and converting metric measurements to explain why your answer is correct. Use words and/or numbers in your explanation.

_____

_____

_____

_____

_____